

CLAIMS

What is claimed is:

1. A mechanism for automatic synchronization of scripting variables between a page
containing action tags, and a tag library, the mechanism comprising:

a pageContext object for each page, the pageContext object containing a mapping of
scripting variables to values; and

a TagExtraInfo object for each action tag, the TagExtraInfo object containing a
method that returns a list of available scripting variables and a variable type associated with
each variable.

2. The mechanism of Claim 1, wherein when the page is translated, a translator
consults the TagExtraInfo object to obtain the list of available scripting variables.

3. The mechanism of Claim 2, wherein the pageContext object is created when the
page is executed (run-time).

4. The mechanism of Claim 3, wherein the TagExtraInfo object comprises:

a valid Java object name for each variable;

a Java type for each variable; and

a scope parameter that specifies a variable's scope relative to the page.

5. The mechanism of Claim 4, wherein the tag library does not know which scripting
language is used to create the page.

6. The mechanism of Claim 5, wherein the page is a JavaServer Page.

7. A method for automatically synchronizing scripting variables between a page and a
tag library, the method comprising:

creating for each action tag a TagExtraInfo object that contains a list of available
scripting variables and a variable type associated with each variable;

5 translating the page by referring to the list of scripting variables in the TagExtraInfo
6 object associated with each action tag in the page;
7 executing the page; and
8 creating for each page at execution, a pageContext object that contains a mapping of
9 scripting variables to values.

1 8. The method of Claim 7, wherein the TagExtraInfo object comprises:

- 2 a valid Java object name for each variable;
- 3 a Java type for each variable; and
- 4 a scope parameter that specifies a variable's scope relative to the page.

1 9. The method of Claim 8, wherein the tag library does not know which scripting
2 language is used to create the page.

1 ^{sub} 94 10. The method of Claim 9, wherein the page is a JavaServer Page.

1 11. A computer readable medium including computer program code for providing
2 automatic synchronization of scripting variables in a tag extension mechanism, the computer
3 readable medium comprising:

- 4 computer program code for creating for each page a pageContext object that contains
- 5 a mapping of scripting variables to values; and
- 6 computer program code for creating for each action tag a TagExtraInfo object that
- 7 contains a list of available scripting variables and a variable type associated with each
- 8 variable.

1 12. A computer system for providing automatic synchronization of scripting variables
2 in a tag extension mechanism, the computer system comprising:

- 3 a processor; and
- 4 computer program code operating on the processor for creating for each page a
- 5 pageContext object that contains a mapping of scripting variables to values; and

- 6 computer program code for creating for each action tag a TagExtraInfo object that
- 7 contains a list of available-scripting variables and a variable type associated with each
- 8 variable.

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